



# B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



## POST MID TERM- EXAM (2026) MATHEMATICS

Class : VIII

Duration: 1 Hr

Date : 10-01-2026

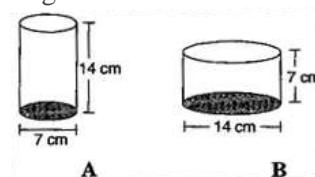
Max. Marks: 25

Admission No.:

Roll No.:

### General Instructions:

1. All Questions are compulsory.
2. There are 13 questions.
- I. **CHOOSE THE CORRECT ALTERNATIVE IN THE FOLLOWING.** 5
1. The factorisation of  $12a^2b+15ab^2$  is
  - 3ab (4ab+5)
  - 3ab (4a+5b)
  - 3a (4a+5b)
  - 3b (4a + 5b)
2.  $5(2x + 1)(3x + 5) \div (2x + 1)$  is equal to
  - $5(3x + 5)$
  - $(3x + 5)$
  - 5
  - none of these
3. Volume of a cylinder with base radius =  $r$  and height =  $h$ , is:
  - $2\pi rh$
  - $\pi r^2h$
  - $2\pi r(r + h)$
  - $\frac{1}{3}\pi r^2h$
4. The area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm is:
  - $41\text{cm}^2$
  - $82\text{ cm}^2$
  - $410\text{ cm}^2$
  - $820\text{ cm}^2$
5. The height of a cuboid whose volume is  $275\text{ cm}^3$  and base area is  $25\text{ cm}^2$  is:
  - 10 cm
  - 11 cm
  - 12 cm
  - 13 cm
6. Factorise:  $25 m^2 + 30 m + 9$  2
7. Work out the following division: 2
  - $10 y (6 y + 21) \div 5 (2y + 7)$
  - $(10 x - 25) \div (2 x - 5)$
8. Find the area of the Trapezium whose parallel sides are 20 m and 30 m and the distance between them is 12 m. 2
9. A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How much sheet of metal is required? 2
10. Diameter of cylinder A is 7 cm and the height is 14 cm. Diameter of cylinder B is 14 cm and height is 7 cm. Check which cylinder is with greater volume. 3



11. The diameter of a garden roller is 1.4 m and its length is 2 m long. How much area will it cover in 5 revolution? **3**

12. Factorise and divide:  $(y^2 + 7y + 10) \div (y + 5)$  **3**

13. Factorise: a)  $49x^2 - 36$   
b)  $x^2 + 6x + 8$  **3**

\*\*\*\*\* ALL THE BEST \*\*\*\*\*